

Fig. 1

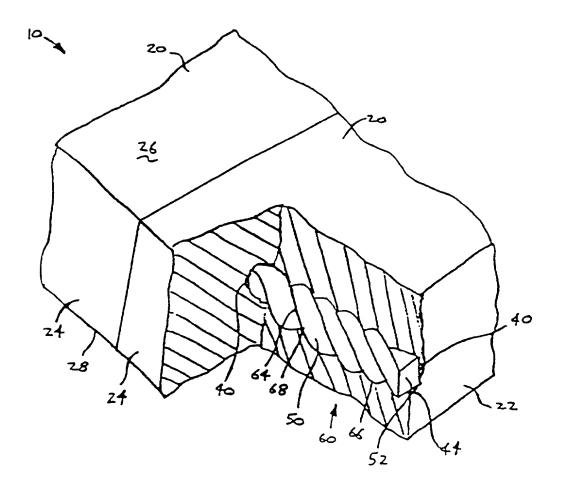
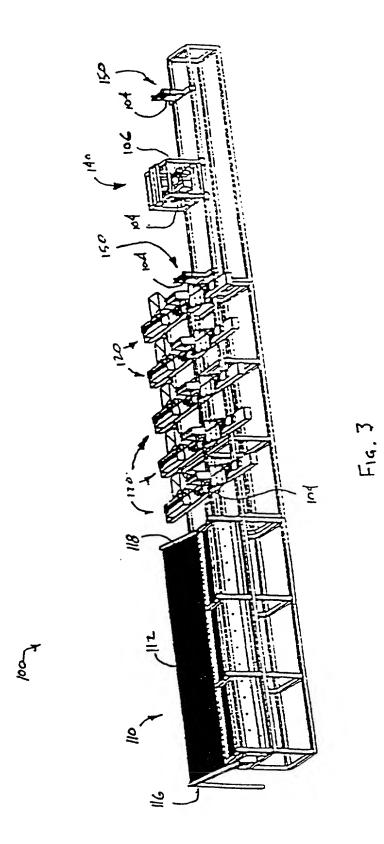
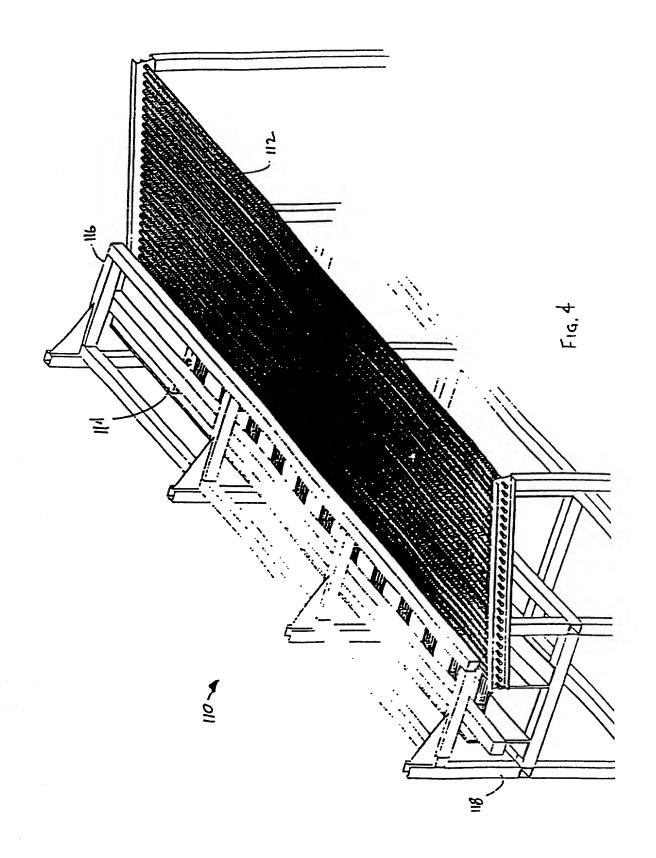
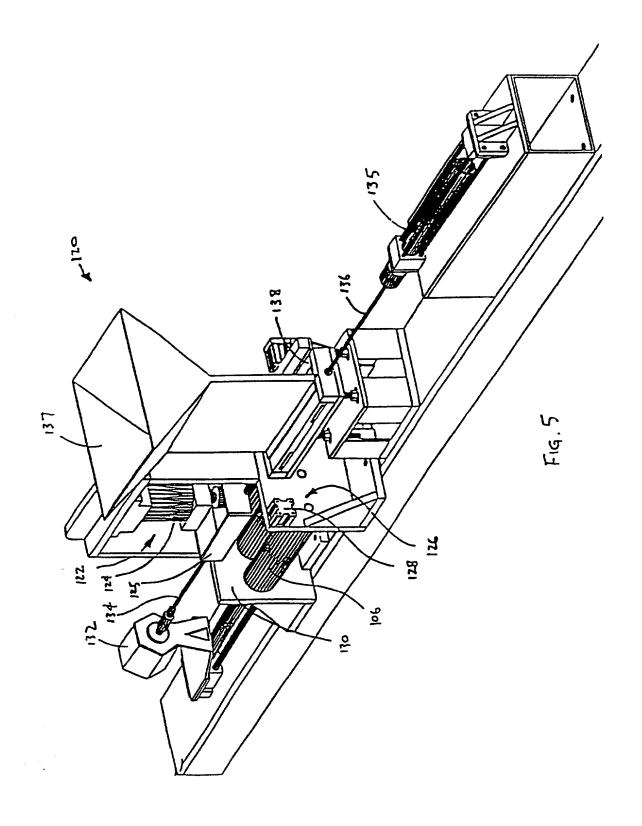


FIG. Z







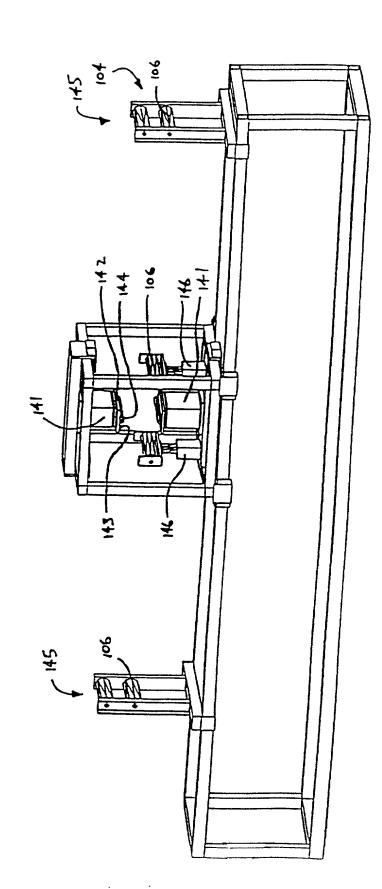


Fig.6

Text 3	Max Load, lbs/Deffection/Failure	1527 lbs/6.385"/simple tension		1648 lbs/7.760"/full deflection	reached with no failure	1652 lbs/6.844"/simple tension		1774 lbs/7.438"/full deflection	reached with no failure	2147 lbs/6.785"/cross-grain	tension failure	1009 lbs/4.275"/simple tension	
Test 2	Deflection @ Deflection 1 Board 500 lbs,in: @ 500 lbs,in:	2.282	2.034	2.308	2.271	2.124	2.051	2.174	2.112	N/A	N/A	N/A	¥/N
Test 1	Deflection @ 500 lbs.in	1.975	2.002	2.378	2.508	2.157	1.996	2.002	2.005	1.594	1.810	1.914	2.081
Date	Board	12-94	12-94	12-94	12-94	12-94	12-94	11-94	11-94	11-94	11-94	11-94	11-94
Side		A	В	K	В	A	М	ď	В	Ą	В	4	В
HEE		1	-	2	2	3	က	4	4	5	5	9	9

F19.7

Figure 8

COMPARISON RESULTS						
	Pinned	Solid	Laminated			
Modulus of Elasticity	2.0×10^{6}	1.8×10^6	2.15 x 10°			
Flexural Stress	2,600 psi	2,200 psi	2,900 psi			
Horizontal Sheer Stress	120 psi	90 psi	145 psi			

Figure 9

FAILURE RESULTS					
Type of Board	Average Failure Load (lbs)	Comments			
Pinned	2,700 psi	One member out of three fail first			
Solid	2,200 psi	Whole unit fails			
Laminated	2,400 psi	Whole unit fails			

Figure 10

DEFLECTION RESULTS					
Type of Board (7 ft span)	Deflection @ 50 psf Load (in)	OSHA Allowable Deflection (in)			
Pinned	0.73	1.4			
Solid	0.81	1.4			
Laminated	0.73	1.4			